





Why this top secret Mega-CD will smash Nintendo's Famicom

Digitizer II on test

NAKED VIDEO

Datel's stunning new

Full story pages 4&5

BLACK POWER Is this the sexiest machine ever mode?

PLUS: IBM'S 12 NEW PCs AND there's DOS 5 and a notebook too!

GAME

THE DIFFERENCE

ENGINE
A Victorian computer is brought to life — p55





LIFE & DEATH Virtual surgery comes to your Amiga & ST

## FrontendFrontend Fronte

of computing? And where do you find it in bite sized chunks? Why here of course. It's in Frontend first!

## SUGAR BID TO SAVE SPURS

that Alan Sugar is to invest

some £12 million of his own

Shelter offers pet solution

with Alan ' Suzzu ' Sugar in order to save offing Spore from receiverable. HOE this move reas even former Sugar's bid, for the club.



Make a FAST bust has been hard at work once again, in a week of action against software

## DUTCH A DAM SHAME

belonbone mornivers, prolitable in

TRESS SENS

under the impression that a

## LABOUR'S COMPU-NUND



be doing wall with the public in the pleased with the way Labour's main competer is bandling their own internal officies.

SHOOT FROM THE LI & "Commodure has given out a "T Still is death 1 Addit And

interestingly. Philips in collaborating with Knobsk on the high as you are today that wook telling tall tales

8 Thronis down the boundary

BT phone home • Party problems



## HATE-filled giveaway scoop special

## **EXPRESS GIVES**

## THE GAME AWAY

In a remarkable publishing coup, New Computer Express next week becomes the first weekly magazi in the history of the world to offer its readers a full same – probably

Next Thursday, along with your weekly guide packed to the proverblals with first news, first reviews and best buys, you'll also find MATE, a brutally addictive game for both the Amiga and the ST.

DON'T DELAY, ORDER YOUR COPY TODAY The lest thing we want is for our reguler readers to miss out, so fill in the form on page 18



ples playing paids, ples durits — all lat jets gles playing paids, ples durits — all lat jets gles playing paids, ples durits have paid to perfect the first playing paids of the playing paid to perfect their lesses to next out by about large their con Thurwise on Thurwi



 MATE a brittant respecte, a complete passe and a playing guide and set of closes, all for £1.507 is this same kind of a vited-up? Ma sires, it's merely as Expression of our advancing passessity.

Funtabulous 16-bit bargain offer

## CONTENTS

22 June 1991 • Express 1

COVER FEATURE

ega's Secret New Megadrives whole world's going crazy ov D and tomorrow's consoles are nonging. Is the new Sega the moture-proof option for you? see pages 48.5

## REVIEWS



j wait? 1040 chip, 400Mb disk and more than Paul Gaultier - but or you∜ – page 49

Sick of the flicker? The cheapest way of making your Amiga look a whole lot better - page 52



### EVERY WEEK

News

What's New Brilliant photo manipulation sol super VGA monitors, tiny 486

tmes Week tips and news, s Life&Death review

tention! Amiga and ST owners

WE is the name of the game. And it



Whole Wired
World
Tech Tips
Circuit City
Event Horizon
On-line

22 June 1991 + New Computer Express + 3

Mega-CD, Super Famicom, Neo Geo and PC Engine - as the latest consoles

# DOES THE CD CONSOLE

While the competition between CDTV and CD-I may be the more familiar battleground of interactive Compact Disc, the war between console manufacturers is also breaking into the CD-ROM market. So. as Sega announces its new Mega-CD system, Express takes a close look at the increasingly serious side of c hardware industry based on fun

revealing its new bullered into memory for fast Maga-CD system selected journalists at Chicago's CES show two ego, Sego finally the muchine at Megadrive, the CD addon is

capable of storing 5409th of cache allows code to be

coloration a Maria Median and

est hit songs from a Sega stored using cartridge back up

Buth the US and Japan are religiously heavely of the 16-bit

COURCES and for the PC Engine.

hot on the heals of the US launch of Nistando's Super Famican, another 16-bit con

\* Supe's Mago CD - not learned officially enywhere outside of Japon. The pames industry dunies of Innucledge, her Express Iranks the story

here self at least this

## Why the consoles and Compact Disc had to combine • Screen to

House of Gass's Marca CD confirms the insignif next stee in the

In 1980 the estimated value of the market was £183 colline. saw the raise more than halved from a peak of £1 billion to Attari, still saffine its consider, was saverely demagned by

Neo Geo from SNK (marketed by DGM Ltd in the UK!

This was the her woof laureh of 1990. The specifications of



790 and 68000

Mondrive from Sean



Sterne, 17 onles FM rbis

PC Engine/Turbo Grafx from NEC BY THERE FOR THESE COAST - FROM Still not efficially available in this country, the 8-bit PC Engine

PC Engine 512, TarboGrafs 4 064

are lined up for the lucrative leisure market. Express asks:

# WAR START HER

## Console confusion and corporate politics

measin Sory had

Speaking to UK trade weekly Kalinske claimed "the new CD. Megadine leads the 16-bit man-

collaboration is in the offing -

its history,

develop CD technology with Philips not Sory.

VER FEATURE EXPRESS COMMENT

## SEGA VERSUS NINTENDO We always been an intrinsing battle and one in which Metando always

Familton. The Segn Maga-CD serges the Play Station. Who all wis? Mintends has unity just launched its re-bedged 16-bit Super Fundcom

Nintendo's plane for a CD system have been thrown into disprey by its switch from Sane to Philips have Matendo do what Saya don't?! Mo

competition: It is available now, and it can make use of the If Sega can actually get bit Mega CD lette the shape outside of Japan

so, while the Mega CD may well amount the Super Famiciers, unless Nietonde term ils corporate vision neary from its history, the S-bit photo and its inability to communicate with the rest iil the world, the console

you won't find it too difficult to out touch. #

the hottest consoles on the black



Super Famicom (now rebadged outside Japan as the Super NES)

from Nintendo

It is known that coffeatry developers in the UK are





## NIRRIES

## Amiga video views

Amstrad offering

Going down

The street and E-19905 course

by Derby-based Syntronix for editing, recording, and The Editron which works ling domestic video and

devices have been launched

The Lotus challenge

a Datum from Munkey Island and

Acorn leaps into PC market with sub-£100 emulator

# ARCHIMEDES PC

none man 1984 (by) and become in a window on its desistop, and DOS day out The Israeck of DOS 5 means that market is for greater, and reclaces the original version a Minneyly Word C and Plandram

as Ardinodes wardpracesser, ree an Archimodes sproadshoet running alog tegetion software that small excepts

## Pay day blues

## Big Blue bites the Apple

EM, is that this would be added to IBM's O/SI major staters in the RSC market. Sur

Acola Computers and ISM held a receting in

Faulty and more importantly. IEM could may

your Amiga

### **IBM PRESSES AHEAD** AN EXPRESS EXCLUSIVE Win with

IBM's press launch at the company's South Bank offices on Tuesday 11 June was its first majo event since it announced the PS/2 range in 1987. The most eagerly awaited news was that of Disk Operating System (DOS) 5, the successor to the widely criticised 4.01.

Other new releases include a series of mid-range 3865X machines, a 386 notebook, a rewritable optical drive and 50MHz 486 processor upgrade for PS/2 Models 90 and 95. In all. IBM heralded 13 new machines. How will they affect the market and will they further IBM's plans to dominate sales of personal computers? Read on

### CD OR NOT CD?

As extracted DC-connectible dates

standard 6508b on a CD-FCMI system, EM's new drive and disk

## **Bugged or brilliant? DOS**

eastern (SES-DOS 5.0) is the handly criticized version This is the most significant



ment important counts in the

that it takes up less memory ters. Many users completed it

\* 305 5 pids up where the decided been retained, and according to both SM and Microsoft It's also been

and Viglee, and software devel DOS developer Microsoft



If you have an Amiga, then



Ingree Messire, welled at

### Super fast 486 upgrade 1994 announced at the orese

users of its 486-based PS/ mubines the chance to get SOMHE nariormance from their machines with a new upgrade card he card is compatible with

Model ST SY are BOBB love



s ARW house the Model 57 CT will bolster its show of the mid range techner its sterre of it range 386 PC market.

costs \$1,693 for a 608th use memory (RAM), it has a small



Preside the most he announced by 1986 significant gap in the

. Exemple true to its lictury of following rather tion leading personal competing, ISM loss floatly relevant a ISSEC national late a merical already overflowing with choice.

22 June 1991 . New Computer Express . 7

# TOMORROW'S **CUTTING EDGE**

More for-out facts from a future that's getting increasingly closer...

## Stock Invaders

Canadas are erealed up. The colorors with a new alread

known in Japan and the play games. It has extended

radical reave takes

For more news on Sega's plans for the future of its machin



The need for speed

welly need to ge? 55895 is show supercomputers in

Ohios been on outting faster and faster and this week brings news of bilidaring haned on \$500 Instanced instruction set you

## Dicing with data - the optical revolution

And If History 1,500 disk lark

detailed fines can be drawn on to Of coarse, the technique

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System holidary working with very tight Cretart Danadand competition disease

## Notable notebook

PRODUCT: 386 notabook com NAME: Akhter LCN 386-20 COMPATIBILITY: PC Although Alther is among the top ter

Avelability: Now Target Users: Smell to medium Contact: Above: 0297 443521

Jazzy colour at a low cost

PRODUCT: Super VGA colour monitor COMPATIBILITY: PC



• The preciselelt unimplay of the SYT4E1/2 Super VGA colour availtor is selfain flavorial reach of even small besidences The crice difference between

While, as the company admirs, it

C240 Target Users: According to the

Perceived Compelition: Low cost

Tidy disk

Disk Ivalide COMPATIBILITY: Across the board mountains of various sized disks topping

Ternet Hance: Expresses with deal

. Yes on see of your disks of surface chance laude Starage Trey.

Menufecturing (UK):

plastic disk holders from Takean Reports can be

made simple PRODUCT: Relational report writer

COMPATIBILITY: PO



a Deteller radions that its solutional const serior is the only system around to allor unth a wide remon of functions to create strening reports and preparations down

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I suppose that if you print this letter at all your reply eld be the sexual type of sercentic comment on this subject that we out here in outstoned land have come to

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machine including this Amiga. The reason's simple including this Amiga. The reason's simple - there is now happening on this time.
We say and crew everything for all machines but all present. An artiginal stongs above - hence the oversign, Allow, out of the 19 written and occlusions working on MSC, only 5 over Amigas, so I'll not because early branches or SM facilities would not be these thinds of the heads of the facilities with the forest than 19 oversign and the same thinds of the heads.

Pure bias

o enlighten on as to what sign developments we are to see in the coming weeks I await your answer with bailed breeds.

WELL KEVM there's a whole bunch of Areas developments coming your way your title need hav marche. Play's be on the front cover, in this news pugges and Jeson's column. But you'll need to lead an eye out because they's like between masces of stores on other mechanics.

Wireheads

I expect I am one of many Amigo owners who will write to your repending the existic existion. The Yello you if Amigo Genned. You've he only one accounty in It-This is one of the object toxics trash I have med in my writer the Stand Campbel seems to shirk that the Amigo will become a windhead a machine in only Tire seem of institutes.

and Campbel seems to think it the Andige will become a inhead's machine in only live and of statence. We says the iniga and its oblings will follow a same path as the 8-bits. In 18-bits book the or six years to over the 3-bits. This reason, a one path of the condition will entake the 18-bits in 1990. Shorp Richards Twickerla.

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centers I was depty distressed not to find an Archimedes column in Issue 122 of IRC Samily the local was the selection of the selection of the selection of the selection hash for the selection that had of Express in protein on parents of the selection of the se

software base has to be before it is considered not as small anymen? Any response evidence.

S if Ministeld Marquer Need SORMY but The powers that be have decided its curtains for the Archimodes column. But that is not to say covering all the Archimode related out one of the

sine, it never really took off clid it? not how big closs a software base to be? Wall. err. bigger then the that's what.

Puro cynic

a Arz column then, when oland, you drop it. You're otally cynical. H II Hardy Chickest

TV PC show

intentision industry at present, don't they resilise that it's, for a regular sich or a guter program? In the early das there were a number of it lived shows that periorised on the 8-bits but newsagents you'll find over for regular magazines dedicated to nothing else.

for every household to have one installed. It would be rice to see a progress denoted to games and hardware equally and to give achies to all formats, proceeded by accesses what Stryes what its process of the salking about (i.e. not The Smith).

what do other readers think?
What do other readers think?
Simon filchands Teschanters
WELL I KNOW what I think Simon and
this time I'm in full agreement with you.
So if there's anybody from the BBC

if there's anybody from the BBC iding pieces do the following right w. Walk up to Michael Checkland's ice on the top floor, and push the lowing memo under his door :-

ins, that got that out of my system a those two letters in one ish Simon, ding you a fiver lowerfer the poster

Yuppie crime

se student, worl part time computer shop ottenham Court

I agree that antware piracy, admittedly carried out mainly by admissed mair computer users, is demaying to the industry as a whole, but I feel that the real damage is done not by these people, but by the new governion

### ON THE COUCH



"respectable" business people

DRAW and 382 2.42 on the PC. I believe people like him, and \$6 in

UNPORTUNATELY LTHINK CLOSECO.

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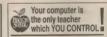
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Isn't it strange how everyone has been dinging the proteins of ICPs new Yorks of ICPs and York of Items and Items of Ite

ready creed one? Sure, it is easy emerging rice and Edy, but what price distinct? Why Arriga hard drives being said when a ward £250 these days, it recens excessive to text and £500 flor constitute page can't even see once this plagged bit Presentally, for other part pay when a and of extra spugglant banging off the back of the candidate.

## ST

Are we being fobbed off with below par games?
 ST poised to dominate the International Music Fair
 Thalamus blasts into the ST market with Armalyte

### ARMALYTE, STREET LIGHT, NIGHT SIGHT

Teldonic This software house like been producing quality games on certain lesser computers for years in it has now decided to lockly the ST market. So find release will SE Annuary The Real Right, a shoot less-up. St the d. The home stand of the sation.

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Is seen.

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have been purpled out of the software houses discover on wing and a purple. Yet disapility the low scores they receive in the regardown, these some pervises well on purple, the log of the charts for remarks. But yet the?

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between existing power and straightforward operation." PC Megazine
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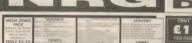
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sexiest machine ever

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The NoXT fires up into a business-like graphic

The utilities and domos on the NeXT made a total

#### PRODUCT: NeXTstation FROM: NeXT CONTACT: 081-5A5 0005

year or so ago, industry ramours materialised users. However, it has a user-friendly front end which is

for with a 400Vb hard drive. 16Vb of memory and a 2.88Mb foppy, drive. As well as a standard set of utili-

DESIGN FOR THE ENTHRE NeXT is available in any colour as long as it is black

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#### a way that complemented both program and muching. The cheapest mono NeXT is around \$4,000. That's

about the price of the Macintosh IFX, the high and Mac. New that software is available, the NeXT is a good learn III use. As long as serious software developers productivity is the 90s that the Mac set in the Alle



Seven or so years ago DataSoft

Hubble, bubble, toil and trouble ... that's Gary Penn, with another cute collection of hot news, rave reviews and terrific tips.

act your mind back to Carres Week 136 (It was only lost week) and you may remember a review of Locure Cenius' Spet 'V's original and Genius has decided to put back Spets



+ M's the Real Thing \_ See Still with Spet ... Someone at ESP was

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# **CAN YOU DIGIT?**

PRODUCT: Video Digitizer II MACHINE: Amiga FROM: Datel Electronics CONTACT: 0782 744707

schalage, a weeken of apportunities opered as to for Ariginal action with a city for bodge. Other comparise began to release central systems but frow serior greatery for a lower passing variety for several problems and a serior state g. Ginns all flews passing variety for several for control state g. Ginns all flews passing variety several for control state g. Ginns all flews passing variety for video deginizing was still equil many captures were still one of the control state g. Ginns all flews of the control state g. G

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ing the digitaling program liber, along with two animation viewers. At the actual grabbing functions are confed out on one screen, with the command loans down the sight hand side of the screen. Although this bar can't be turned off, there is a function for several out make as functions off. I contain the several out.

A system which yields excellent results with the minimum of fuss. The ideal starting place for anyone

Gobbling an image is simplishly stoff. Mil you have to dis a plag your composite video occurs into the soil. cick on the atmostrate cost, adjust your input to get the bost picture and finally clok. on the cusmos soon. A soveren will then be grabbed by the machine and deplayed roady for edding. The system what is mattere, and on horse's no need to most sowned with the passe on your video player. — the screen will be grabbed instantia-

Choe you've got your image, you can manipulate it in a number of ways. Punctions are available for flipping and retating a picture, changing its size or even swinding it into negative I vivo can also cut and paste areas of the sovere III create a bibotio-morphole effect.

the unit's realitime ability is probbing an animated sequence. If you want to grab an entire sequence, all you want to grab an entire sequence, all you have to do is hit the record door, and a series of screens will be grabbed in succession. You can ben an entire the grabbed in succession. You can ben

Weighing in at less than £100, Datel's new video frame grabber brings real time digitising within the reach of the budget-conscious user. But what kind of sacrifice in quality does such a cheap system offer? Maff Evans plugs in and grabs the real world.



move to the firms editor screen to cut your arrington to the right langth, move screens around and set top and psychotic speeds proposed speeds and the state of the psychotic speeds and the state of the psychotic speeds and the state of th

descripts.

Unsurprisingly, the number of harnes in your digited sequence is verificated by available memory. Apost 15 flagmes is used in a zero may machine. However, you can reduce the amount of memory taken up by auch harne by reducing the number of gray trades in the patella, so that more trained can be creamed in. This gives a marked deterioration in picture quality, but not be as threat that a retrieval homest execution.

CRYSTAL CLEAR OR DARK AS MUD? Seeing as the Video Digitizer II is a relativelysystem, you'd expect to find a few componenties in the and between Wild common to be composed. pithine spatify is about the boot yet seen from a neathing more gradier. The shades are smooth and glitch froit and is suppring impact of defeat come numspape error on restricted poletes. One of the most difficult single is gradier wides it a societ with a lot, of durit shades. Dan's problem viven manages to grad these tank, man's problem viven manages to grad these tank, man's problems with eate, giving a docent representation will be compared in ments will cause.

many prichars with eate, giving a docent represent town of the engined in reany all cases. Some of the constraint the contraints of this put doget too led. Once you know what's what, grabbing and eating packars is pretig easy, however, if you can't give to gree with the process editing controls, the fact that it program allows you to seen as IFT formagin reason it.

For less than CD0 for a system which yields excellent, results with the minimum of fast or complication, Video Options it represents pretty much the ideal starting place for amone interested in video grabbing. Now IEI that's needed is a other update, how about to Datri III.

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AGAINST

\*\*The brightness and contrast controls are rather sits and 5ddly, making adjusting the input a dreg.

\*\*More detailed manual descriptions along with a few tutorial examples would have been extremely halpfut.

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All this happened to Charle Bibbbas, oxiety howen as Birmy Cubbbas to its contemporaries at the

CHARUE WHO?

Creative Babbage, English methematics and founder of feared southful solicities, was the first men \$10 on ceive and stempt to consput a computer as we understand it boday. When we cotaliste our increasing soussous and dependancy on his invention it is staggardy to high that there is no Existing column in Conditions and the State State of the State State State of the State S

indon or no Babbage Hall to honour him.

Hywever, the Science Museum in Konsington widon, is currently preparing an exhibition that should not his name from abbasility and base him from use.

ees with the good inhocoron census increasing. The sheer volcture of additions increase bathage to presider reachantsing calculation. The focus of this inhibition is to be Bathage's Difference Engine No. 2, which is to the sheer accolations practicions the disregard or the speedy solution of mathematical problems. God frene calculations had been seedable by steam to which he frend region." It is satisful possible," see my the seed for flashbeight Steller was and earn husbration. He begin to make detailed drawings for his organs admirting his aim to elementar instruction. He begin to make detailed drawings for his organs admirting his aim to elementar instruction and calculating and printing of materials all select introduction of the whole process. Enough of his scientific

The sheer tedium of addition drove Babbage to consider mechanising calculation

in 1823 work on his reachine began, After 10 poors and 517,000 of public funds (about 5450,000 today) the ground was abondoned with only a small part of the

UNDAUNTED

in, notably his Analysical Engine which bore the incerblance to today's computers. It consists of reflect the rambles, a mill is do the calculations, card input based on those used in Jucquard and a printing with for the insuffs. It was of the call. Engine that Bubbage's disciple. Lady

grandmether of Linda (and on whom we reckape Bibbago sperk most of his grant) sold. "It can arrange and combine numerical quantities leading as if they were lattest or other general symbols; and, "in fact, it might bring out its results in alignostical notation, were prevision made accessingly."

, employ the basis functions of computation to obstate. Today we use the binary number system. Bibbago used the decimal system in his machines.

CONSTRUCTION OF DIFFERENCE ENGINE NO 2
None of Bibblage's machines were constructed in his
litetime - his son H P Babbage tried to build part of the
Analytical Engine wher his lather's death, but even this

It has been this general option that Bobbigs these were be altered by the behaviory of his defail machining was be crade to protect on precision of the deserge and hat he sport of he investigated sufficiently amount the invegration of his peers. It he been an escential part of the current project of a Source Neuron to do not the Engineer position of

Heart along of the learn photocols of changes in all the necessary to see, septied to come accessing conversed that construction as in destings principle conversed that construction as in destings principle Analysis pleases in the length of principle Pleases or the Company, Outber University, Not 1982, Dr. Alles Borology of Sydney (Versierly, Versier, Versierly, Ver

In 1985 thankly approached the measury with the proposal. The project was extremely well timed, since 1991 was to be the bioentenary of Babbage's birth, it

#### A MAN OUT OF HIS TIME IN MORE WAYS THAN THAN ONE

The Babbaga project is of great in information in the importance is all when por Interested in the importance is all when any Interested in the importance is decivately, in particular consequence, on culture, if we consider that electronic computers now performs processly three insufcrious of higher mall-nematics that Babbaga envisioned which elders us to construint space conft, it is lackerably to think how this process religit have accelerated had babbaga himself over successful.

their development but lack of support and tracked funding. I devel discher in his based Turtiges Man is sympatished to Balbalogic. "Bobboge and his protinges ware greatise information. In their writings we clear find agreemed and it would since fully a certainty abread of its line. If the

> players a device that maily belong a age of electronies

world. His wittings give proof of this se hout, they speak elequently of instruction steps, programming lagic, symbol manipolation, the liabits of inscribes from The the solembies of the ages apparently did not fact the significance of the message. Relabage remoted a britisest adversion, a prophet of the effectively a in the heading of the steps on sender.

active title of the agree apparently
food the significance of the
go. Rathage remained a brillion
ton, a prophet of the electronic age. It
gold to significant of the electronic age. It
of Groon, Gwade, a man who must
goed deal of condit for the Babbage
commently and creep, speaks on a
commenty or adverse, speaks on a

complete engine find strong echoes today, the etiationship between entrepreneurial vestures and government, advanced technology and lenovation, market needs, per groupage, viloations,

Investigative scientist and the tablishmen.
"He was uncomplementary about the litural climate for enhybroteurs, on

### CHARLES BARBAGE

is been suggested that this not been the case it is

#### "I would give up the rest of my life for the privilege of spending three days in the age five hundred years hence!" Oserles Bebbogs (1791 - 1871)

It was decided that a trial since should be made to

Paramount was the need to maintain historical accuracy achieved were not incompasible with 1540's occurrings. Furthermore, any departures from

Much time was sport deciding on the gradus of

According to the rangers. 'I' will feeture an unti-

selected items of unique archivol resterial Christmus look no harbor.

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